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Subject: Writing JPEG2000 file

Posted by [raval.chintan](#) on Wed, 07 Sep 2005 10:04:14 GMT

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Hello,

I want to generate the JPEG2000 file from the tiff file which is containing 20000 samples and 20000 lines, I am writing the following code.

```
jp2filename = 'abc'
Data = read_tiff('c:\satellite.tif')
imageDims = Size(data, /Dimension)

; Prepare JPEG2000 object property values.
ncomponents = 3
nLayers = 20
nLevels = 6
offset = [0,0]
jp2TileDims = [1024, 1024]
jp2TileOffset = [0,0]
bitdepth = [8,8,8]

; Create the JPEG2000 image object.
oJP2File = OBJ_NEW('IDLfJPEG2000', jp2filename, WRITE=1)
oJP2File->SetProperty, N_COMPONENTS=nComponents, $
  N_LAYERS=nLayers, $
  N_LEVELS=nLevels, $
  OFFSET=offset, $
  TILE_DIMENSIONS=JP2TileDims, $
  TILE_OFFSET=JP2TileOffset, $
  BIT_DEPTH=bitDepth, $
  DIMENSIONS=[imageDims[1], imageDims[2]]

oJP2FILE->SetData, Data
OBJ_DESTROY, oJP2FILE
```

Now the problem is that IDL 6.2 is unable to allocate the memory for storing the data.

Is there any other way to do this? If yes Then How one can do it?

Thanks In Advance.

Chintan Raval.

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Subject: Re: Writing JPEG2000 file

Posted by [raval.chintan](#) on Wed, 14 Sep 2005 06:48:43 GMT

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David,

I am facing one more problem with tiling mechanism, Here when I am reading the JPEG2000 file normally and try to display it with tiling mechanism, the Data which is written on one tile and the data written on the other tile are differing. So is so i think this problem i am facing because i am making some mistake while writing the data. I am setting property, n\_Layers = Bits\_per\_sample of the file, and i am also passing the / Reversible key word for the Lossless compression.

Again Thanks in Advance,  
Chintan Raval

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Subject: Re: Writing JPEG2000 file

Posted by [David Alexander](#) on Thu, 15 Sep 2005 18:37:00 GMT

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I'm not sure about this one. If REVERSIBLE is set to true I wouldn't expect this to happen. Are you using IDL 6.1 or 6.2? I know that in 6.2 the version of Kakadu has been upgraded (Kakadu is the underlying JPEG2000 library that IDL uses). If you're using 6.1, you might try downloading an evaluation version of 6.2 to see if the same thing happens.

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